

10/706,790

TITLE

MECHANICAL HEART

DESCRIPTION

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Technical field

The present invention relates to an artificial heart comprising a series of towing and pressing means and intended to be implanted in a patient to replace the pumping activity of a heart.

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The object of the present invention is to obtain an artificial heart to be implanted into a patient to replace whole of or part of the activity of a heart.

Background of the invention

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The last years there has been an increased demand within cardiology for an efficient heart prosthesis.

Heart diseases and often in combination with circulatory diseases give ~~raise~~ rise to a serious threat against the patient's life.

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Heart failure, as a result of a longterm weakness of the function of the heart, is a very serious condition and will sooner or later lead to death.

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Access to healthy donator hearts is also very restricted and a patient may have to wait for several years for a suitable heart to be presented for implantation.

For these reasons it is of great importance to find and develop an artificial heart or rather an apparatus which can offer a continuous, harmless, comfortable, and reliable substitute for a weak, failing heart.

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For many years a number of artificial heart prostheses have been introduced. However, these show a number of deficiencies and drawbacks, such as lack of implantability, lack of physiological pliability, lack of longterm use as well as lack of pliability with regard to beat-volume.

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US-A-5,139,517 shows an artificial heart which is hydraulically operated by activation from a pacemaker.

US-A-5,135,539 shows a heart prosthesis working with an electromechanical device in

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substitute
specification
Dr
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